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☒ 1. Document ID: US 6594786 B1

L14: Entry 1 of 2

File: USPT

Jul 15, 2003

US-PAT-NO: 6594786

DOCUMENT-IDENTIFIER: US 6594786 B1

TITLE: Fault tolerant high availability meter

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Connelly; Jon Christopher	Windsor	CO		
Bryant; Craig William	Fort Collins	CO		
Loy; Eric William	Fort Collins	CO		
Shumway; Martin	Ft. Collins	CO		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Hewlett-Packard Development Company, LP	Houston	TX			02

APPL-NO: 09/ 495431 [PALM]

DATE FILED: January 31, 2000

INT-CL: [07] G06 F 11/00

US-CL-ISSUED: 714/50; 714/4, 714/39, 709/224

US-CL-CURRENT: 714/50; 709/224, 714/39, 714/4

FIELD-OF-SEARCH: 714/50, 714/39, 714/3, 714/4, 714/749, 714/13, 709/223, 709/222, 709/221

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4183462</u>	January 1980	Hideshima et al.	714/50
<u>5023873</u>	June 1991	Stevenson et al.	714/4
<u>5157667</u>	October 1992	Carusone et al.	340/2.7
<u>5704031</u>	December 1997	Mikami et al.	709/221
<u>5754754</u>	May 1998	Dudley et al.	714/18
<u>5790431</u>	August 1998	Ahrens et al.	709/104
<u>5983316</u>	November 1999	Norwood	711/112
<u>6219701</u>	April 2001	Hirata et al.	709/101

<u>6349335</u>	February 2002	Jenney	706/50
<u>6401116</u>	June 2002	Okigami	709/223
<u>6438705</u>	August 2002	Chao et al.	714/4
<u>6442713</u>	August 2002	Block et al.	714/43
<u>6496948</u>	December 2002	Smorodinsky	714/37

OTHER PUBLICATIONS

Microsoft Computer Dictionary Fifth Ed., Publisher: Microsoft Press, Pub. date: 2002, p. 104.

ART-UNIT: 2184

PRIMARY-EXAMINER: Beausoliel; Robert

ASSISTANT-EXAMINER: McCarthy; Christopher S.

ATTY-AGENT-FIRM: Ritz; T. Grant

ABSTRACT:

A fault tolerant availability meter includes agents for stand-alone computers and each node of a cluster. The agents monitor availability with timestamps and report uptime and downtime events to a server. Additionally, agents on nodes of a cluster monitor cluster, node and package availability and cluster configuration changes and report these event to the server. Events are stored locally on the stand-alone computers and nodes, and additionally, on the server. Events are tracked with a sequence numbers. If the server receives an out-of-sequence event, an agent-server recovery procedure is initiated to restore the missing events from either the agents or the server. The server may generate availability reports for all monitored entities, including one or more stand-alone computers and one or more clusters of computers. Availability is distinguished by planned and unplanned downtime. Furthermore, unavailable and unreachable systems are identified.

16 Claims, 19 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. Desc	Image
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☒ 2. Document ID: US 5566339 A

L14: Entry 2 of 2

File: USPT

Oct 15, 1996

US-PAT-NO: 5566339

DOCUMENT-IDENTIFIER: US 5566339 A

TITLE: System and method for monitoring computer environment and operation

DATE-ISSUED: October 15, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perholtz; Ronald J.	Silver Spring	MD		
Elmqest; Eric J.	Arlington	VA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Fox Network <u>Systems</u> , Inc.	Rockville	MD			02

APPL-NO: 07/ 966081 [PALM]
DATE FILED: October 23, 1992

INT-CL: [06] H04 M 11/00

US-CL-ISSUED: 395/750; 395/700, 364/705.05, 379/38
US-CL-CURRENT: 713/340; 379/38, 379/41, 708/109

FIELD-OF-SEARCH: 395/750, 395/700, 364/200, 364/900, 364/705.05, 379/6, 379/5, 379/8, 379/59, 379/93, 379/143, 379/413, 379/38, 371/66

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4051326</u>	September 1977	Badagnani et al.	364/900
<u>4213015</u>	July 1980	Kimbrough	455/9
<u>4371751</u>	February 1983	Hilligoss, Jr. et al.	179/5R
<u>4381427</u>	April 1983	Cheal et al.	370/67
<u>4390750</u>	June 1983	Bartelink	179/5R
<u>4475193</u>	October 1984	Brown	370/124
<u>4503291</u>	March 1985	Von Holten et al.	179/90AN
<u>4593323</u>	June 1986	Kanda et al.	364/900
<u>4656318</u>	April 1987	Noyes	379/93
<u>4692941</u>	September 1987	Jacks et al.	381/52
<u>4731815</u>	March 1988	Hanscom et al.	379/79
<u>4748656</u>	May 1988	Gibbs	379/93
<u>4873712</u>	October 1989	Porco	379/58
<u>4878196</u>	October 1989	Rose	395/750
<u>4937850</u>	June 1990	Borbas et al.	379/6
<u>4964065</u>	October 1990	Hicks et al.	364/514
<u>4972452</u>	November 1990	Chack et al.	379/2
<u>4972504</u>	November 1990	Daniel, Jr. et al.	364/403
<u>5220597</u>	June 1993	Horiuchi	379/362
<u>5233642</u>	August 1993	Renton	379/59
<u>5283905</u>	February 1994	Saadeh et al.	395/750
<u>5311582</u>	May 1994	Davenport et al.	379/143
<u>5375163</u>	December 1994	Kamimoto et al.	379/61
<u>5438607</u>	August 1995	Przygoda, Jr. et al.	379/38

OTHER PUBLICATIONS

Enviro Com II-Environmental Monitor and Modem, Operating Instructions.
Server-Monitoring Software: Getting Inside Your File Server, by Frank Derfler, Jr., PC Magazine, Sep. 15, 1992.
Watchdog Board, Home Automation Laboratories.
Sensaphone Security System.
Compaq System Manager, Features/Specifications.
Watchdog Keeps Finger on Network Pulse, By Eric J. Bowden Products, Feb. 10, 1992.
Innovative Data Communication Products.
NetAlarm 3.1 Offers Pager, E-Mail Alerts, By Nico Krohn, PC Week, Jun. 22, 1992.
Lan Server Watch-Proactive Disaster Prevention, Lan Times Readers Choice 1992.
Enviro Com I-Environmental Monitor, Operating Instructions.

ART-UNIT: 239

PRIMARY-EXAMINER: Davis; George B.

ATTY-AGENT-FIRM: Sixbey, Friedman, Leedom & Ferguson, P.C. Smith; Evan R. Robinson; Eric J.

ABSTRACT:

An advanced electronic alert system for monitoring computer network(s), environment, security and the status of tasks being processed by a computer. The system stores voice recorded and text alert messages on computer readable magnetic media; automatically dials designated persons when alert situation(s) are detected; and then replays the applicable recorded voice alert message(s) once an alert call has been completed. Alternatively, alert messages may be transmitted by the system using phone dialing tones, in those cases where an alert call is placed to a digital device, such as a pager. The system issues automatic alert warnings to one or more designated persons when main electrical power fails or is restored; the temperature becomes too hot or too cold; a loud sound is detected, such as that produced by a smoke detector, fire alarm, etc.; a central network computer/file server fails; an intruder and/or water has been detected; main and/or backup power fails; a computer software program fails and/or is successfully completed; or a microprocessor based computer used as part of the system fails.

11 Claims, 70 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
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Term	Documents
SYSTEM	1861801
SYSTEMS	1081038
CONFIGURATION	982582
CONFIGURATIONS	338371
MONITOR\$	0
MONITOR	256678
MONITORABILITY	17
MONITORABLE	591
MONITORABLELINEDATA	1
MONITORABLELINEDATAINFO	1
MONITORABLE/CONTROLLABLE	3
(L11 AND ((MONITOR\$) SAME (SYSTEM NEAR CONFIGURATION))).USPT.	2

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